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1996

# Circulation and Diffusion Studies in the South China Sea / Research Project Outline

Chu, Peter C.

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1995-1996 Principal Investigator, Circulation and Diffusion Studies in the South China Sea,  
Office of Naval Research



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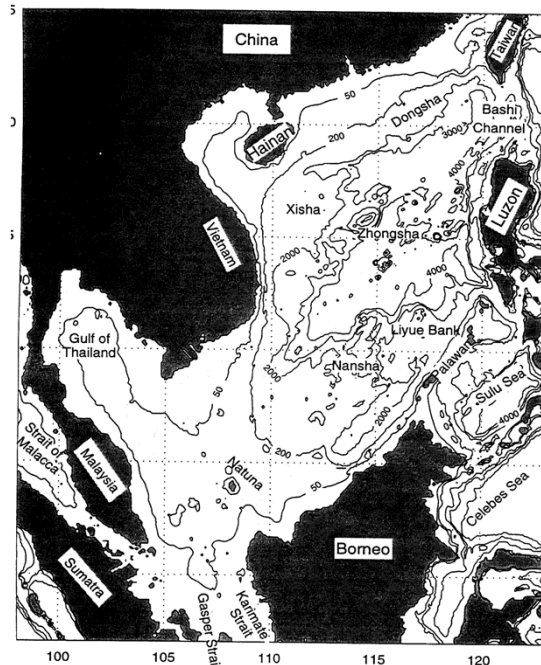
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# Circulation and Diffusion Studies in the South China Sea

PI: Peter C. Chu ([pcchu@nps.edu](mailto:pcchu@nps.edu)), Sponsor: ONR (Manager: Tom Curtin)

1995-1996, Funding Level: \$60,000



## Brief Description

Carry out dynamical studies on the circulation and diffusion in the South China Sea (SCS), especially combined effect of the monsoon and the Kuroshio intrusion on the SCS circulation and thermohaline structure.

## NPS Theses

- (1) Tseng, Hsing-Chia, "[South China Sea warm-core and cold-core eddies detected from the Navy's Master Oceanographic Observation Data Set \(MOODS\)](#)," MS in Physical Oceanography, September 1995.
- (2) Edmons, Nate, "[South China Sea ocean circulations simulated by a primitive equation model](#)," MS in Meteorology and Oceanography, September 1996
- (3) Nicklin, Michael, "[A study of the relationship between south Asian monsoon convection and tropical upper easterly jet using INSAT data](#)," MS in METOC, December 1996.

## Selected Publications

- (1) Chu, P.C., N.L. Edmons, and C.W. Fan, 1999: Dynamical mechanisms for the South China Sea seasonal circulation and thermohaline variabilities. [\*Journal of Physical Oceanography\*, 29](#), 2971-2989 ([paper download](#)).
- (2) Chu, P.C., H.C. Tseng, C.P. Chang, and J.M. Chen, 1997: South China Sea warm pool detected from the Navy's Master Oceanographic Observational Data Set (MOODS). [\*Journal of Geophysical Research\*, 102](#), 15761-15771 ([paper download](#)).
- (3) Chu, P.C., S.H. Lu, and Y. Chen, 1997: Temporal and spatial variabilities of the South China Sea surface temperature anomaly. [\*Journal of Geophysical Research\*, 102](#), 20937-20955 ([paper download](#)).